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1 Rearchitecting the UML infrastructure
Colin Atkinson, Thomas Kühne
October 2002   **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 12 Issue 4
Full text available: 📄 pdf(328.78 KB)   Additional Information: full citation, abstract, references, index term

Metamodeling is one of the core foundations of computer-automated multiparadigm modeling. However, th
form the required metamodeling approach should take and precisely what role metamodels should play. Th
describing some fundamental problems in the industry's leading metamodeling technology, the UML framew
could be rearchitected to overcome these problems. Three main is ...

Keywords: Metamodeling, UML infrastructure, classification, classification dimensions, deep instantiation, s
language

2 A Survey of Techniques for Synchronization and Recovery in Decentralized Computer Systems
Walter H. Kohler
June 1981   **ACM Computing Surveys (CSUR)**, Volume 13 Issue 2
Full text available: 📄 pdf(3.33 MB)   Additional Information: full citation, references, citings, index terms

3 Coupling compiler-enabled and conventional memory accessing for energy efficiency
Raksit Ashok, Saurabh Chheda, Csaba Andras Moritz
May 2004   **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 2
Full text available: 📄 pdf(1.41 MB)   Additional Information: full citation, abstract, references, index term

This article presents Cool-Mem, a family of memory system architectures that integrate conventional memo
address translation, and compiler-enabled cache disambiguation techniques, to reduce energy consumption
solutions provided in this article leverage on interlayer tradeoffs between architecture, compiler, and operat
reduction by statically matching memory operations with energy-eff ...

Keywords: Energy efficiency, translation buffers, virtually addressed caches

4 Performance of the VAX-11/780 translation buffer: simulation and measurement
Douglas W. Clark, Joel S. Emer
February 1985   **ACM Transactions on Computer Systems (TOCS)**, Volume 3 Issue 1
Full text available: 📄 pdf(2.36 MB)   Additional Information: full citation, abstract, references, citings, ind

A virtual-address translation buffer (TB) is a hardware cache of recently used virtual-to-physical address m
set of measurements and simulations of translation buffer performance in the VAX-11/780. Two different ha
11/780 computers, and translation buffer behavior was measured. Measurements were made under normal

reproducible synthetic time-sharing work loads. Reported measure ...

5 Notable computer networks

John S. Quarterman, Josiah C. Hoskins
October 1986 **Communications of the ACM**, Volume 29 Issue 10

Full text available: pdf(4.66 MB)   Additional Information: full citation, abstract, references, citings, index terms, rev

Computer networks are becoming more numerous and more diverse. Collectively, they constitute a worldwi

6 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collabor**

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index term

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time d
understanding of the execution of the application. The visualization tool we use is Poet, an event tracer dev
However, these diagrams are often very complex and do not provide the user with the desired overview of
display repeated occurrences of non-trivial commun ...

7 Trunking of TDM and narrowband services over IP Networks

James Aweya
January 2003 **International Journal of Network Management**, Volume 13 Issue 1

Full text available: pdf(418.58 KB)   Additional Information: full citation, abstract, references, citings, ind

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possi
voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolu
based environment is the 'graceful' interworking of the IP networks with the existing networks and services
telephone network. A &I ...

8 Understanding and constructing shared spaces with mixed-reality boundaries

Steve Benford, Chris Greenhalgh, Gail Reynard, Chris Brown, Boriana Koleva
September 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 3

Full text available: pdf(2.50 MB)   Additional Information: full citation, abstract, references, citings, ind

We propose an approach to creating shared mixed realities based on the construction of transparent bound
we introduce a taxonomy that classifies current approaches to shared spaces according to the three dimens
spatiality. Second, we discuss our experience of staging a poetry performance simultaneously within real an
complexities involved in establishing social in ...

Keywords: CSCW, augmented reality, collaborative virtual environments, media-spaces, mixed reality, sha
reality

9 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo
July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 23 Issue

Full text available: pdf(1.95 MB)   Additional Information: full citation, abstract, references, citings, ind

Since the early days of logic programming, researchers in the field realized the potential for exploitation of
programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, amo
interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that th
frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

10 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB)   Additional Information: full citation, references, citings, index terms

11 Formalizing the safety of Java, the Java virtual machine, and Java card

Pieter H. Hartel, Luc Moreau

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Full text available: pdf(442.86 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>ind</u>

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java sa smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is ne readable formal models of the whole of Java and its implementation. This is a formidable task but we believ and thence to achieve ITSEC level 6 or Common Crite ...

Keywords: Common criteria, programming

12 Launching the new era

Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama, Evan Tick

March 1993 **Communications of the ACM**, Volume 36 Issue 3

Full text available: pdf(3.45 MB)

Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

13 4.2BSD and 4.3BSD as examples of the UNIX system

John S. Quarterman, Abraham Silberschatz, James L. Peterson

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available: pdf(4.07 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>ind</u>

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Vers Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University historical development of the UNIX system from its conception in 1969 until today, and describe the design We then present the internal data structures and ...

14 Design of the Mneme persistent object store

J. Eliot B. Moss

April 1990 **ACM Transactions on Information Systems (TOIS)**, Volume 8 Issue 2

Full text available: pdf(3.22 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>ind</u>

The Mneme project is an investigation of techniques for integrating programming language and database fe cooperative, information-intensive tasks such as computer-aided software engineering. The project strategy persistent programming languages. We report here on the Mneme persistent object store, a fundamental co and initial prototype. Mneme stores objects

15 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue

Full text available: pdf(6.32 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>ind</u>

This paper presents an overview of the Cedar programming environment, focusing on its overall structure— the way they are organized. Cedar supports the development of programs written in a single programming purpose is to increase the productivity of programmers whose activities include experimental programming systems for a high-performance personal computer. T ...

16 Distributed file systems: concepts and examples

Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Full text available: pdf(5.33 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>ind</u>

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share common file system. A typical configuration for a DFS is a collection of workstations and mainframes conne implemented as part of the operating system of each of the connected computers. This paper establishes a structure and decentralization of both data and con ...

17 Status report of the graphic standards planning committee
Computer Graphics staff
August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Full text available: pdf(15.01 MB)   Additional Information: full citation, references, citings

18 Query evaluation techniques for large databases
Goetz Graefe
June 1993   **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, ind

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for sequences will be required to provide acceptable performance. The advent of object-oriented and extensible problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets o database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms

19 Programming languages for distributed computing systems
Henri E. Bal, Jennifer G. Steiner, Andrew S. Tanenbaum
September 1989   **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available: pdf(6.50 MB)   Additional Information: full citation, abstract, references, citings, ind

When distributed systems first appeared, they were programmed in traditional sequential languages, usuall for sending and receiving messages. As distributed applications became more commonplace and more soph satisfactory. Researchers all over the world began designing new programming languages specifically for im languages and their history, their underlying pr ...

20 Architectures: A perspective on the future of massively parallel computing: fine-grain vs. coarse-grain
Predrag T. Tosic
April 2004   **Proceedings of the first conference on computing frontiers on Computing frontiers**

Full text available: pdf(277.49 KB)   Additional Information: full citation, abstract, references, index term

Models, architectures and languages for *parallel computation* have been of utmost research interest in com decades. A great variety of parallel computation models has been proposed and studied, and different paral some possible ways of harnessing parallelism and improving performance of the general purpose computers as *artificial neural networks* (...

Keywords: cellular automata, distributed systems, massively parallel computing, multiprocessor computer models